

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-13. (*Cancelled*).

14. (*Currently Amended*) An optical head, comprising:

an objective lens ~~for irradiating~~ that irradiates an optical disc with a light beam and ~~for receiving~~ receives the light beam reflected from the optical disc;

a first light source ~~for emitting~~ configured to emit a first light beam having a first wavelength;

a second light source ~~for emitting~~ configured to emit a second light beam having a second wavelength;

an optical path synthesizing-separating element ~~for allowing~~ that permits the first beam and the second beam to be incident on the objective lens and ~~for separating~~ separates beams reflected from the objective lens, the reflected beams corresponding to the first and second light beams, respectively;

first and second light detectors ~~for detecting~~ configured to detect the first and second reflected beams, respectively, reflected from the optical path synthesizing-separating element; and

a converging optical system arranged between the second light source and the optical path synthesizing-separating element, the converging optical system configured to diminish ~~for diminishing~~ the diverging angle of the diverging light flux emitted from the second light source ~~so as to guide the light flux to the optical path synthesizing-separating element~~, the converging optical system including a convex lens that converts the diverging angle of the diverging light flux into a smaller diverging angle.

15. (*Original*) The optical head according to claim 14, wherein the first light source and the first light detector are mounted to a single substrate for forming a first light receiving-emitting integral element, and the second light source and the second

light detector are mounted to another substrate differing from the first light receiving-emitting integral element to form a second light receiving-emitting element.

16. (*Currently Amended*) An optical head, comprising:

an objective lens ~~for collecting~~ that collects a light beam on an optical disc and ~~for receiving~~ receives the light beam reflected from the optical disc;

a first light source ~~for emitting~~ configured to emit a first light beam having a first wavelength;

a second light source ~~for emitting~~ configured to emit a second light beam having a second wavelength;

a beam splitter ~~for splitting~~ that splits the first and second reflected light beams from the objective lens corresponding to the first and second light beams, respectively;

a light detector ~~for detecting~~ configured to detect the first and second reflected light beams from the beam splitter; and

a converging optical system arranged between the second light source and the optical path synthesizing-separating element, the converging optical system configured to diminish ~~for diminishing~~ the diverging angle of the diverging light flux generated from the second light source ~~so as to guide the light flux of the diminished diverging angle to the optical path synthesizing-separating element, the converging optical system including a convex lens that converts the diverging angle of the diverging light flux into a smaller diverging angle.~~

17. (*Original*) The optical head according to claim 16, wherein the converging optical system is formed of a convex lens having a radius of curvature on the side of the second light source larger than that of a flat plane or than a radius of curvature on the side opposite to the side of the second light source.

18. (*Original*) The optical head according to claim 17, wherein the converging optical system includes a refractive index distribution type lens or a plane diffraction type lens.

19. (*Cancelled*).

20. (*Original*) The optical head according to claim 16, wherein the second light performs the information recording and reproduction in and from the information recording medium.

21. (*Currently Amended*) An optical head device, comprising:

an objective lens ~~for converging~~ configured to converge a light beam on a predetermined position of an optical disc and ~~for receiving~~ to receive the light beam reflected from the optical disc;

a first light source ~~for emitting~~ configured to emit a first light beam having a first wavelength;

a second light source ~~for emitting~~ configured to emit a second light beam having a second wavelength;

an optical path synthesizing-separating element ~~for permitting~~ that permits the first light beam and the second light beam to be incident on the objective lens and ~~for splitting~~ splits the first and second reflected light beams from the objective lens corresponding to the first and second light beams;

first and second light detectors ~~for detecting~~ configured to detect the first and second reflected light beams from the optical path synthesizing-separating element, respectively;

a converging optical system arranged between the second light source and the optical path synthesizing-separating element, the converging optical system configured to diminish ~~for diminishing~~ the diverging angle of the diverging light flux emitted from the second light source so as to guide the light flux of the diminished diverging angle to the optical path synthesizing-separating element; and

a signal processing circuit ~~for obtaining~~ that obtains a tracking error signal, a focus error signal, and a reproduced signal by using the outputs from the first and second light detectors.

22.-23. (*Cancelled*).